

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/486,334

DATE: 08/20/2001 TIME: 14:04:56

Input Set : N:\i486334.raw

				-							,				1	$\sqsubseteq N$	JTF	EREL
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2				Ric														
3		Job	, Do	minq	Įue										•			
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5		and	In	Part	icul	ar o	f Cy	stei	ne,	Meth	ioni	ne a	ind					compounds
6		Glu	tath	ione	in	Plan	ts a	nd F	lant	s Ob	tain	ied						
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29 30		25					30					35					40	
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32		GIII	тте	GIU	Asp	Asp	Asp	Asp	Val	Trp		Lys	Met	Leu	Glu		Ala	
33		222	+	~~+		45					50					55		
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35		пуз	ser	Asp	60	Lys	GIII	GIU	Pro		Leu	Ser	Asn	Tyr		Tyr	Ala	
36		taa	atc	202		a a t	000	+ 0+	++-	65					70			0.04
37		Ser	Tla	Thr	Sor	cat	۸۳a	CON	LLd	gag	Con	gct	tta	gct	cac	atc	ctc	294
38		DGI	116	75	Ser	His	Arg	Ser	80	GIU	ser	Ата	ьeu		HIS	TTE	Leu	
39		tcc	αta	_	ctc	200	22+	++=		at a	000	200	222	85	~+~		gaa .	2.4.2
40		Ser	Val	T.v.c	T.611	Ser	Aen	Leu	Acn	Lou	Dro	age	Aac Aar	mb~	Tau	Db-	gaa .	342
41		001	90	шуз	пси	DCI	ASII	95	nsii	ьеu	FIU	ser	100	1111	ьеи	Pne	GIU	
42		cta		ata	age	gtt	++=		OT 2 2	200	aat	~~~		2+0	~~~	+		200
43		Len	Phe	Tle	Ser	Val	T.011	Glu	Clu	Sor	Dro	Clu	TIO	TIA	gaa	Com	acg	390
44		105	1110	110	DCI	vai	110	GIU	Gru	Ser	FIO	115	TIE	TTE	GIU	ser		
45			саа	αat	ctt	ata		ata	ລລລ	a a a	242		000	~a+	+ ~+	2+2	120	120
46		Lvs	Gln	Asp	Len	Ile	Δla	Val	Tue	Clu	Ara	7 cn	Dro	712	Cva	TIA	age	438
47		-,0			u	125	, <u>, , , , , , , , , , , , , , , , , , </u>	v a ±	пуз	GIU	130	vah	ETO	VIG	Cys	135	ser	
48		tac	att	cat	t.ac	ttc	tta	ממכ	ttc	222		ttc	ctc	act	+ ~+		act	486
			5		- 3 -		ccy	330		uuu	990			get	LyL	caa	yet	400

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51		cat	cσa	ata			acc	ctc	taa				2072	222	150		gct	F 2.4
52		His	Ara	Ile	Ala	His	Thr	Len	Trn	Tive	Cln	Aac	aya	ddd	atc	gta	gct Ala	534
53			5	155			1111	DC u	160	шуз	GIII	nsii	Arg	165	тте	val	Ala	
54		tta	tta			aac	aga	ata		aaa	+ <+	t t c	aca		~ a t	~ + +	cat	E00
55		Leu	Leu	Ile	Gln	Asn	Ara	Val	Ser	Glu	Ser	Pho	Δla	yrc Wal	yaı	dll Tla	cat	582
56			170				9	175	501	Olu	ber	1116	180	val	ASP	TIE	нтѕ	
57		ccc	gga	gcg	aaq	atc	gga		aaa	att	ctt	tta		cat	aca	200	aac	630
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73		val	Val	Lys	Asp	Val	Pro	Ala	Arg	Thr	Thr		Val	Gly	Asn	Pro	Ala	
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76		agg	ttg	att	ggt	ggg	aaa	gag	aat	ccg	aga	aaa	cat	gat	aag	att	cct	918
77		Arg	Leu	Ile	GLY	GLY	Lys	Glu	Asn	Pro	Arg	Lys	His	Asp	Lys		Pro	
78		+ ~+	a+ ~			285					290					295		
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80		Cys	ьеu	Thr	300	Asp	GIN	Tnr	ser	Tyr	Leu	Thr	Glu	Trp		Asp	Tyr	
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90		1			-1-	5			Oyb.	111.9	10	оту	VOII	TIIT	GIII	15	Asp	
91		Asp	Ser	Arg	Phe	Cvs	Cvs	Ile	Lvs	Asn		Phe	Δra	Pro	Gl v		Sor	
92		-		5	20	-1-	-1-		Lyo.	25	1110	1110	лгу	110	30	rne	ser	
93		Val	Asn	Arg	Lys	Ile	His	His	Thr		Tle	Glu	Asp	Asn		Asn	Val	
94				35	_				40	O _		01 u	1100	45	1150	лэр	vai	
95		Trp	Ile	Lys	Met	Leu	Glu	Glu .		Lvs	Ser	Asp	Val		Gln	Glu	Pro	
96		-	50	-				55	'	<i>1</i> -		P	60	-, -	~ 11	J_U	-10	
97		Ile	Leu	Ser	Asn	Tyr	Tyr	Tyr .	Ala	Ser	Ile	Thr		His	Ara	Ser	Leu	
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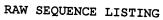
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113	Ile	Leu	Leu	Asp	His	Ala	Thr	Gly	Val	Val	Ile	Glv	Glu	Thr	Ala	Val	
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115	Val	Gly	Asp	Asn	Val	Ser	Ile	Leu	His	Glv	Val	Thr	Len	Glv	Gly	Thr	
116		210					215			1	-	220	200	O _T y	O T y	1111	
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118	225					230				4	235	<u>-1</u>	пор	Ory	Val	240	
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123	Thr	Thr	Ala	Val	Gly	Asn	Pro	Ala	Ara	Leu	Tle	Glv	Glv	Luc	Glu	Λan	
124			275					280	,			011	285	цуз	Giu	ASII	
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140									1				5	014	шси	11± G	
141	cat o	caa 1	tct	cca	tca	aag	gag	aaa	cta	tct ·	tcc ·	att a	acc .	caa ·	tcc (rat	102
142	His (Gln S	Ser	Pro	Ser :	Lys (Glú	Lys	Leu :	Ser :	Ser '	Val '	Thr (Gln -	Ser 7	yar Asn	102
143		10				-	15	-				20		O 111 1	JC1 1	135	
144	gaa q	gca q	gaa d	gca (gcg 1	tca (gca	qcq .	ata 1	tct (aca (aca d	act o	rca (rat o	rca	150
145	GIU F	Ala (Glu <i>I</i>	Ala i	Ala :	Ser Z	Āla .	Ālā	Ile S	Ser A	Ala :	Ala A	Ala	Ala i	gar 9 Asn 7	yey Ma	150
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148	Glu A	Ala <i>P</i>	Ala (Gly 1	Leu :	rp 1	Thr (Gln :	Ile 1	ys A	Ala (Glu 7	Ala A	Ara A	aya <u>r</u>	usp.	100
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151	Al	a Gl	u Al	a Gl	u Pr	o Al	a Le	u Ál	a Se	r Ty	r Le	u Tv	r Se	y ac r Th	y at r Tl	t ctt e Leu	246
152				U	U				h	ካ				7	\wedge		
153	tc	t ca	t tc	g tc	t ct	t gaa	a cg	a tc	t at	c tc	g tt	t ca	t cta		-	c aag	294
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155			, ,	,				81	()				0.0	=			
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157	Le	a cy.	2 261	s Se	r Thi	r Lei	ı Lei	u Sei	r Thi	r Le	u Le	u Tv	r Asr	Tier	ı Ph	E tta	342
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159	aad	c act	ttt	tco	c tco	gat	cct	t tct	ctt	cd.	t aa	c ac	acc	: ata	י מכי	gat	390
160	- 101	- 1111	: Phe	e Sei	Ser	: Asp	Pro	Sei	. Lei	ı Ar	g Ası	n Ala	Thr	· Val) 900 Ala	a gat a Asp	390
161	100	,				TIL					111	ς				100	
162	cta	a cgo	gct	gct	cgt	gtt	cgt	gat	cct	get	t tai	t ato	ta	ı ttc	· tct		438
163	Let	ı Arç	, Ala	Ala	a Arg	y Val	Arc	g Asp	Pro	Ālā	a Cys	s Ile	Ser	Phe	Ser	Cat His	4.50
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193	Glv	999 Glv	Tuc	Clu	aay	Dua	acg	att	cat	gat	gag	gaa	tgt	cct	gga	gaa	918
194	0 ± y	- <u>y</u>	Ly S	GIU	285	LTO	Inr	тте	Hıs	Asp	GLu	Glu	Cys	Pro	Gly	Glu	
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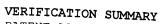


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209	Il	.e Sei	r Ala	a Ala	a Ala	a Ala	a As	p Ala	a Gli	u Ala	a A1:	a Gly	z T.e.ı	יע דיי	O The	r Gln	
210				-				41	j					_			
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212																	
213	Se	r Tyr 5	: Lei	а Тур	r Sei	Thi	: Ile	e Lei	ı Sei	r His	s Sei	202	, . To:		. 71		
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221	Pro	o Ala 130	Cvs	Ile	Ser	Phe	Sar	TZU	C	Т	т		125				
222		130	-			* 110	135	1112	Cys	ьеи	Leu	Asn	Tyr	Lys	Gly	Phe	
223	Le			Gln	Ala	His	Δra	. V-1	C 0.20	T12	-	140	_				
224	145	ı Ala		01		150	лгу	Val	ser	His	Lys	Leu	Trp	Thr	Gln	Ser	
225			Pro	I.e.i	Δ1=	Tou	71.	T	11.	~	155					160	
226	•	J Lys	0	дец	165	пец	Ald	ьeu	Hls	Ser	Arg	Ile	Ser	Asp	Val	Phe	
227	Ala	. Val	Asp	Tle	Hie	Dro	7. 7	7.1 -	т.	170					175		
228		a Val	1101	180	1113	FIO	Ата	Ата	ьys	TTe	GLy	Lys	Gly	Ile	Leu	Leu	
229				T 0 0					ואה					100			
230	L	His	195	1111	GTĀ	val	val	vaı	GLy	Glu	Thr	Ala	Val	Ile	Gly	Asn	
231			T > 0					/ () ()					205				
232		Val 210	DCI	116	ьеu	нтѕ	HIS	vaı	Thr	Leu	Gly	Gly	Thr	Gly	Lys	Ala	
233							/ 1 7					$\gamma \gamma \gamma$					
234	225	Gly	мър	Arg	птѕ	220	гàг	TTe	Gly	Asp	Gly	Cys	Leu	Ile	Gly	Ala	
235																	
236	Ory	Ala	1111	тте	Leu	СТУ	Asn	Val	Lys	Ile	Gly	Ala	Gly	Ala	Lys	Val	
237																	
238	Oly	Ala	СТУ	ser	vaı	vaı	Leu	Ile	Asp	Val	Pro	Cys	Arg	Gly	Thr	Ala	
239				200					ノカコ					222			
240	Val	Gly	ASII	Pro	Ala	Arg	Leu	Val	Gly	Gly	Lys	Glu	Lys	Pro	Thr	Ile	
241			2,75					28U					205				
242	птЗ	Asp 290	GLU	ьц	Cys	Pro	Gly	Glu	Ser	Met	Asp	His	Thr	Ser	Phe	Ile	
243							290					300			-		
244	201	Glu	rrp	ser			Ile	Ile									
	305	TD 17				310											
246 <210 247 <211	> тви√ > овД	יוויים. או עד N	0: 5														
247 <211 248 <212	¬ mvn ¬ mpN(TH:	1048														
-10 \212	- 1111	r: DIN	Н														



PATENT APPLICATION: US/09/486,334

DATE: 08/20/2001 TIME: 14:04:57

Input Set : N:\i486334.raw

Output Set: N:\CRF3\08202001\I486334.raw

L:590 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:9 L:710 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:11